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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/882,043

06/18/2001

Ho-Han Ryu

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05/18/2004

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EXAMINER

RAO, SHRINIVAS H

ART UNIT

PAPER NUMBER

2814

DATE MAILED: 05/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/882,043

Applicant(s)

RYU ET AL.

Examiner

Steven H. Rao

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11 March 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-18 and 34-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-18 and 34-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☒ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Response to Amendment***

Applicants' amendment filed on has been entered on March 11, 2004.

Therefore claims 1-18 as amended by the amendment and claims 34-36 presently newly added are currently pending in the Application.

Claim 19-33 ( and not 34-36 as stated in the amendment ) have been cancelled by the amendment.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

• A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 to 18 and 34-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Ha et al. (U.S. Patent No. 6,593,979, herein after Ha).

With respect to claim 1, Ha describes a liquid crystal display module, comprising:

a mold frame comprising a main panel, sidewalls surrounding the main panel and a first engaging hole formed through the main panel and a first engaging hole formed through the main panel thereof ( figs. 1, 12 holes in 400 ) and for receiving fastening screw 786) and a back light assembly disposed on an upper surface of the main panel and comprising a light source ( Ha fig. 1 # 400, col. 6 line 36) a display

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unit disposed on the backlight assembly ( Ha fig. 1 # 600, col. 6 lines 21) a top chassis engaged with the mold frame to fix the back light assembly and the display unit there between, the top chassis having a second engaging hole formed corresponding to the first engaging hole. ( Ha figs.1,2 # 300 and holes in 300 corresponding to holes in 400 above)

With respect to claim 2 Ha describes a LCD module of claim 1, wherein the light - source comprises a lamp generating light, a lamp holder engaged with both ends of the lamp to fix the lamp, and a lamp cover covering the lamp. ( Ha figure 1 # 500, lamp unit # 510, light guiding plate- lamp holder # 520, lamp cover 504, col. 5 lines 65 to col. 6 lines 9).

With respect to claim 3 Ha describes a LCD module of claim 2, wherein the first engaging hole is overlapped with the lamp cover when viewed from a side of the mold frame where the lamp is positioned . (Ha figs. 13 and 14)

With respect to claim 4 Ha describes a LCD module of claim 1, further comprising a back cover disposed on a rear surface of the main panel ; and wherein a third-engaging-hole is formed at a position on the back cover corresponding to the first engaging hole of the mold frame. ( Ha figure 1 800 engaged with 750-back cover, and third hole-fig. 1).

With respect to claim 5 Ha describes a LCD module according of claim 1, wherein a plurality of the first and second engaging holes are formed in the mold frame and the top chassis respectively . ( Ha figure 1 holes formed on end portions of 800 and 780).

With respect to claim 6, Ha describes a display device, comprising:

a mold frame comprising a main panel, sidewalls surrounding the main panel and a first engaging hole formed through the main panel ( Ha fig. 1 # 400), a back light assembly disposed on an upper surface of the main panel and comprising a light source , a display panel disposed on the back light assembly a top chassis engaged with the mold frame, to fix the display unit and the back light assembly therebetween, the top chassis having a second engaging hole formed corresponding to the first engaging hole ( Ha fig.1 # 300 with Holes), a case having a catching member, the engaging device penetrating through the first and second engaging holes to assemble the mold frame and the top chassis. in which a second engaging hole is formed at a position corresponding to the first engaging hole, being engaged with the receiving receptacle such that it is opposite to the receiving receptacle to guide the position of the display unit is a case for receiving the top chassis, said case having a catching member; (i.e. a screw, Ha fig. 12 # 786, col. 8 lines 59) and an engaging device penetrating through the first and second engaging holes, for fixing the receiving receptacle and the top chassis, one side of said engaging device being engaged with the catching member. ( Ha figure 1).

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With respect to claim 7. Ha describes a display device according to claim 6, wherein the light source comprises a lamp for generating light, a lamp holder engaged with both ends of the lamp to fix the lamp, and a lamp cover covering the lamp. ( Ha figure 1 # 500, lamp unit # 510, light guiding plate- lamp holder # 520, lamp cover 504, col. 5 lines 65 to col. 6 lines 9).

With respect to claim 8 Ha describes The display device of claim 7, wherein the first engaging hole is overlapped with the lamp cover when viewed from the side where the lamp is positioned . (Ha figs. 13 and 14)

With respect to claim 9, Ha describes the display device according of claim 6, further comprising a back cover formed on a bottom surface of the mold frame . ( Ha figure 1) :

With respect to claim 10. Ha describes the display device of claim 6, wherein a plurality of the catching members (screw) are formed on an bottom surface of the case. ( Ha figure 12)

With respect to claim 11 Ha describes the display device of claim 6, wherein the catching member ( Screw) is integrally formed with the case and comprises a support surface extending from and in parallel to a bottom surface of the case. ( Ha figure 21)

With respect to claim 12 Ha describes display device of claim 11, wherein the catching member further comprises a through hole formed at a center portion of the support surface and receiving an end of the engaging device . ( Ha figures 12 19 and 21  
identical to Applicants' figure 6 screw and nut).

With respect to claim 13 Ha describes the display device of claim 12, wherein the catching member further comprises a guide recess formed extending from the through hole for guiding the engaging device to the through-hole. ( Ha figure 18, # 730).

With respect to claim 14 Ha describes a liquid crystal display device according to claim 13, wherein the engaging means comprises a first engaging member having a head portion wider than the through-hole to prevent the deviation from the though-hole of the support surface and a body portion penetrating through the first and second

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engaging holes and protruding to the rear surface of the receiving receptacle and having a screw recess at one end portion thereof, and a second engaging device engaged with the screw recess of the first engaging member to fix the receiving receptacle and the top chassis to the case. ( Ha figure 21)

With respect to claim 15 Ha describes a liquid crystal display device according to claim 14, wherein a first direction of a region adjacent to the head portion in the body portion of the first engaging member is thinner than the width of the guide recess to slide the first engaging member into the guide recess of the catching member and to insert the first engaging member into the through-hole. ( Ha figure 12) .

With respect to claim 16 Ha describes a liquid crystal display device according to claim 15, wherein a second direction parallel to the head portion of a region adjacent to the head portion in the body portion of the first engaging member and perpendicular to the first direction is wider than the width of the guide recess to prevent the deviation of the engaging member from the through-hole. ( Ha figure 13).

With respect to claim 17 Ha describes a liquid crystal display device according to claim 6, wherein a plurality of the first engaging hole and a plurality of the second engaging hole are formed. (Ha figure 9) .

With respect to claim 18, to the extent understood, Ha describes a liquid crystal display device according to claim 6, wherein the case is one of a front case and a rear case. ( Ha figure 1).

With respect to claim 34 , Ha describes the device of claim 9, wherein the back cover has a third engaging hole positioned corresponding to the first hole. ( Ha figure 1 800 engaged with 750-back cover, and third hole-fig. 1).

With respect to claim 35, Ha describes the display device of claim 34, wherein the engaging device penetrates through the first hole, the second engaging hole and the third engaging hole. ( Ha figure 1) .

With respect to claim 36 , Ha describes a display module., comprising : a mold frame comprising a main panel, side walls surrounding the main panel and a first hole formed through the main panel ( figs. 1,12 holes in 400 ), a backlight assembly disposed on the mold frame ( Ha fig. 1 # 400, col. 6 line 36) a display unit disposed on the backlight assembly ( Ha fig. 1 # 600, col. 6 lines 21) a top chassis disposed on the display panel and having a second hole formed corresponding to the first engaging hole. ( Ha figs.1,2 # 300 and holes in 300 corresponding to holes in 400 above) and an engaging device penetrating through the first hole and second hole to fix the back light assembly and the display panel between the mold frame and the top chassis. (i.e. a screw, Ha fig. 12 # 786, col. 8 lines 59 and Ha figure 1) .

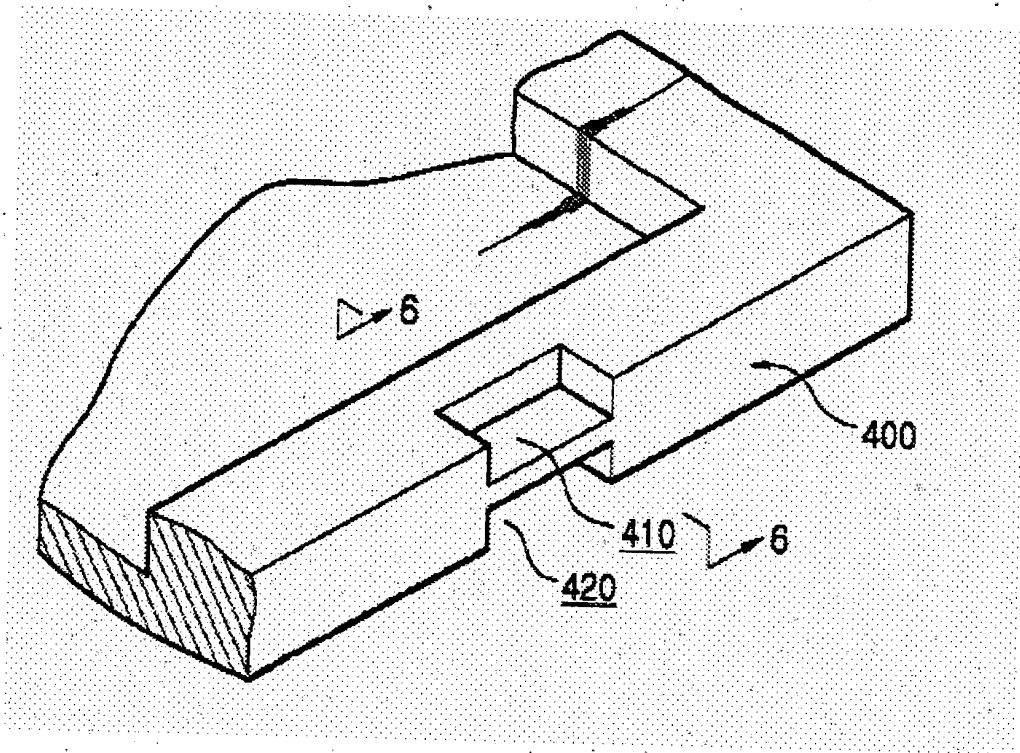
#### ***Response to Arguments***

Applicant's arguments, see pages 11-13, filed 3/11/2004, with respect to the rejection(s) of claim(s) 1-18 under 102 have been fully considered and are persuasive.

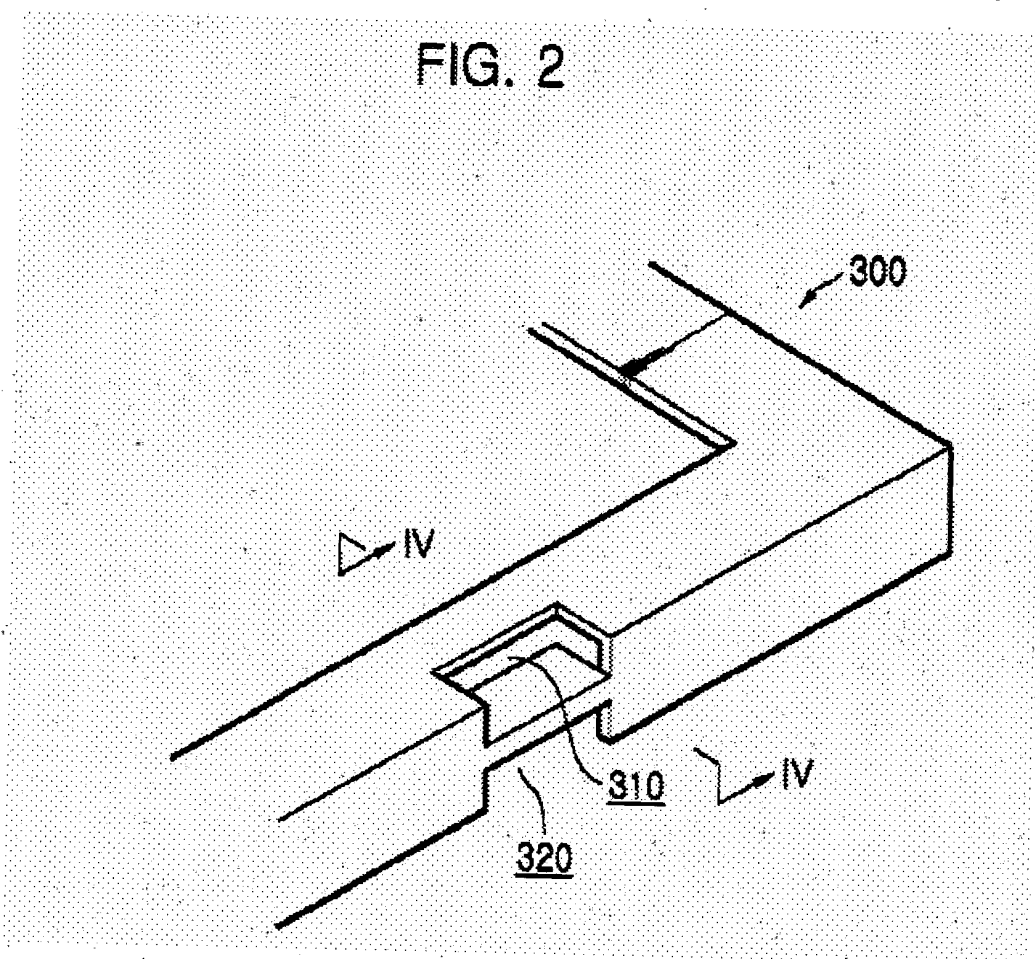
Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Ha .

Applicants' first argument with respect to claim 1 ( and depend claims 2-5) that Ha fails to disclose " a mold frame comprising ..a first engaging hole formed through the main panel thereof " is not persuasive because Ha at least in figure 5 ( reproduced below) shows engaging hole ( 410) in mold frame 400.

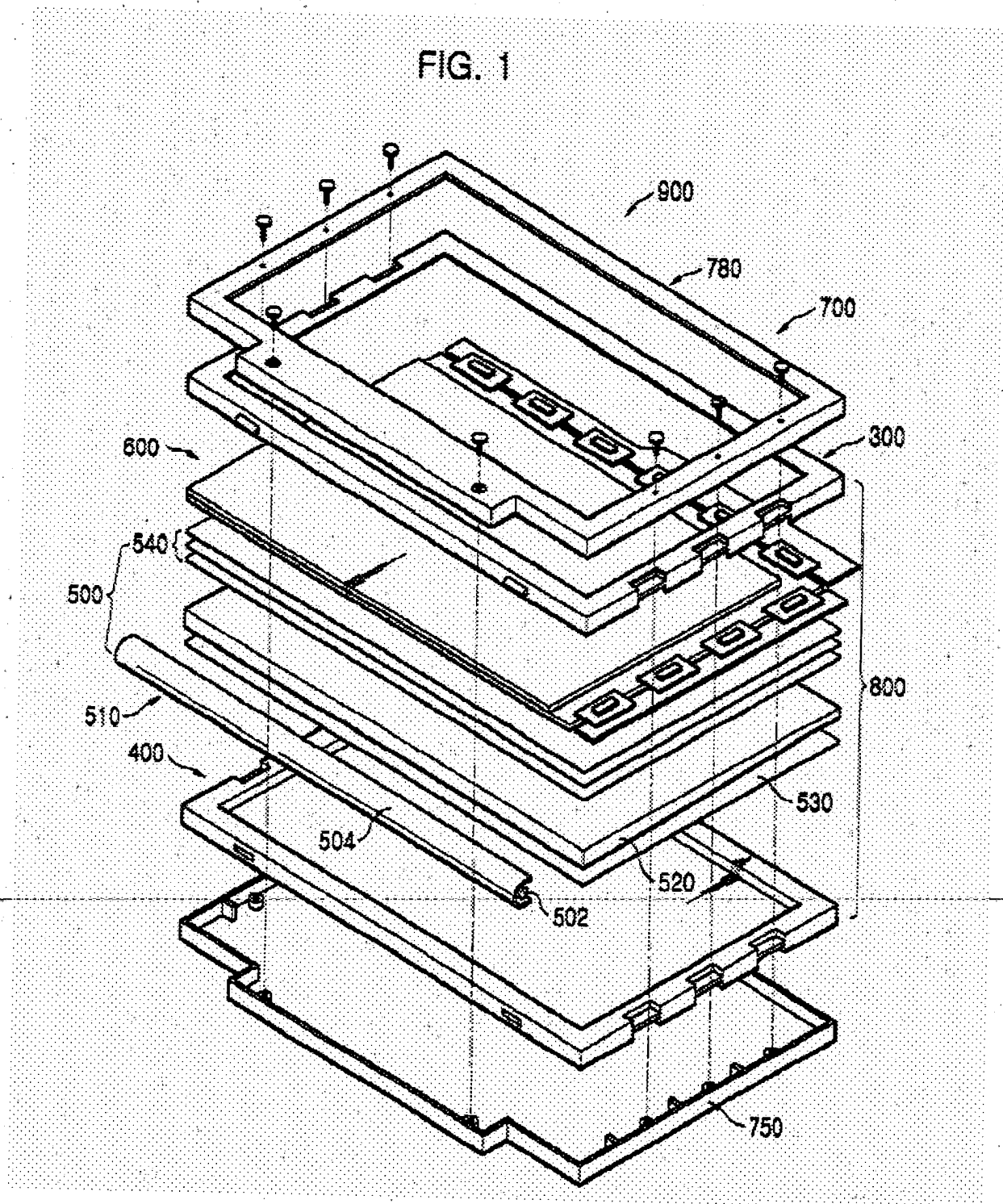




and further the top chassis ( 300) having a second engaging hole( 310) formed corresponding to the first engaging hole ( 410 seen in figure 1) is shown by Ha at least in figures 2 and 1 reproduced below:



and figure 1.:



Therefore all the presently recited limitations of claim1 are described/taught by

Ha.

Applicants' allege that claims 2-5 are allowable because of their dependency on claim 1.

However as seen above claim 1 is not allowable and therefore claims 2-5 are also not allowable.

Applicants' contention with respect to claim 6 that Ha does not disclose,

" A display device , comprising : a mold frame comprising ... a first engaging hole formed through the main panel:

...

a top chassis having a second engaging hole formed corresponding to the first engaging hole "

is not persuasive for reasons set out above under claims 1-5 and incorporated here by reference for the sake of brevity.

In claim 6 the recitation , " an engaging... penetrating through the first and second engaging holes to assemble the mold frame and top chassis" is also described/taught by Ha in figure 1 above , wherein screws (not numbered) penetrate through holes 310 and 410.

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If Applicants' are attempting to distinguish their claims over the applied reference Ha , by the placement of the screw i.e. where the screw passes through ( inside the first/second engaging holes or outside the engaging holes -see Applicants' arguments last paragraph of page 10 to first paragraph of page 11) then their claims must clearly recite this limitation. Presently Applicants' this argument is not consummate in scope with their recited claims .

Applicants' may amend their claims 1 and 6 to recite : e.g. wherein the screw ( instead of the engaging device) passes through the first and second engaging holes entirely within the first and second holes" or similar language which will exclude screws ( engaging devices) penetrating the outside of the first and second engaging holes.

In this regard , attempts were made by the Examiner to contact The Attorney of record Mr. Hae-Chan Par ( 50,114) at ( 703) -712-5365 and at least two (2) messages were left to see if claim language could be agreed , however to date ( May 13, 2004 ) the examiner has not received a return phone call.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed-until-after-the-end-of-the-THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Steven H. Rao whose telephone number is (703) 306-

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5945 ( After January 12, 2004 Phone number may be ( 571) 272-1718) .The examiner can normally be reached on Monday- Friday from approximately 7:00 a.m. to 5:30 p.m.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956. The Group facsimile number is (703) 308-7724.

Steven H. Rao

Patent Examiner

November 19, 2003.



LONG PHAM  
PRIMARY EXAMINER

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